



UNITED STATES, DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 18, 1996

PTAS

D'ALESSANDRO & RITCHIE
NICKI KUZN
P.O.BOX 640640
SAN JOSE, CA 95164-0640



100183173A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/22/1996

REEL/FRAME: 7909/0651

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MALCOLM, MICHAEL A.

DOC DATE: 04/11/1996

ASSIGNEE:

NETWORK APPLIANCE, INC.
319 NORTH BERNARDO AVENUE
MTN. VIEW, CALIFORNIA 94043

SERIAL NUMBER: 08071643

FILING DATE: 06/03/1993

PATENT NUMBER:

ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04 20 1996

Tab settings □ □ □

To the Honorable Commissioner of

22883

1. Name of conveying party(ies):

Michael A. Malcolm

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other _____

Execution Date: April 11, 1996

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/071,643

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: D'Alessandro & Ritchie

Internal Address: _____

Street Address: P. O. Box 640640

City: San Jose State: CA ZIP: 95164-0640

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

060 JS 04/26/96 08071643

1 581 40.00 CK

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Nicki Kuzn

Name of Person Signing

Nicki Kuzn

Signature

4/16/96

Date

Total number of pages including cover sheet, attachments, and document:

ASSIGNMENT
22883

WHEREAS, we, David Hitz, a citizen of the United States of America, residing at 801 Church Street, #1133, Mountain View, California 94041-1963, Michael A. Malcolm, a citizen of the United States of America, residing at 48 South Avalon Drive, Los Altos, California 94022, James K. Lau, a citizen of the United States of America, residing at 952 Wood Duck Avenue, Santa Clara, California 95051, and T. Byron Rakitzis, a citizen of the United States of America, residing at 816 Alameda de las Pulgas, Belmont, California 94002, have invented a "WRITE ANYWHERE FILE SYSTEM LAYOUT" for which we have executed application papers for a U.S. patent thereon, which was filed on June 3, 1993, and assigned Serial No. 08/071,643; and

WHEREAS, Network Appliance, Inc., a California corporation, having a place of business at 319 North Bernardo Avenue, Mountain View, California 94043, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, David Hitz, Michael A. Malcolm, James K. Lau, and T. Byron Rakitzis do ~~not~~ assign, transfer and set over unto the said Network Appliance, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Network Appliance, Inc., its successors and assigns, in accordance with this Assignment.

WITNESS OUR HAND at _____, California, this _____ day of
_____, 1996.

David Hitz

Michael A. Malcolm

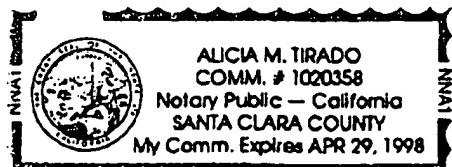
James K. Lau

T. Byron Rakitzis

STATE OF CALIFORNIA)
COUNTY OF Santa Clara) ss.
On this 11/4 day of April, 1996, before me,

a Notary Public, personally appeared David Hitz, Michael A. Malcolm, James K. Lau, and T. Byron Rakitzis personally known to me (or proved to me on the basis of satisfactory evidence) to be the person/s whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacities, and that by his/her/their signature/s on the instrument the person/s or the entity upon behalf of which the person/s acted, executed the instrument.

WITNESS my hand and official seal.



Alicia M. Tirado
NOTARY PUBLIC



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 19, 1996

PTAS

D'ALESSANDRO & RITCHIE
NICKI KUZN
P. O. BOX 640640
SAN JOSE, CA 95164-0640



100183171A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/22/1996

REEL/FRAME: 7909/0674

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
HITZ, DAVID

DOC DATE: 03/25/1996

ASSIGNOR:
LAU, JAMES K.

DOC DATE: 03/25/1996

ASSIGNEE:
NETWORK APPLIANCE, INC.
319 NORTH BERNARDO AVENUE
MTN. VIEW, CALIFORNIA 94043

SERIAL NUMBER: 08071643
PATENT NUMBER:

FILING DATE: 06/03/1993
ISSUE DATE:

SEDLEY PYNE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Tab settings □ □ □ □ □ □ □ □ □ □

04-30-1996

100183171

E.

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and

22883 d original documents or copy thereof.

58140

1. Name of conveying party(ies):

David Hitz
James K. Lau

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other _____

Execution Date: March 25, 1996

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/071,643

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: D'Alessandro & Ritchie

Internal Address: _____

Street Address: P. O. Box 640640

City: San Jose State: CA ZIP: 95164-
0640

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

060 JS 04/26/96 08071643

1 581

40.00 CK

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Nicki Kuzn

Name of Person Signing

Nicki Kuzn

Signature

4/16/96

Date

2

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

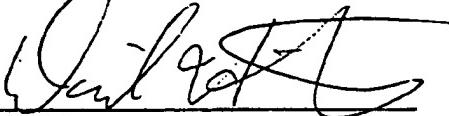
ASSIGNMENT 22883

WHEREAS, we, David Hitz, a citizen of the United States of America, residing at 801 Church Street, #1133, Mountain View, California 94041-1963, Michael A. Malcolm, a citizen of the United States of America, residing at 48 South Avalon Drive, Los Altos, California 94022, James K. Lau, a citizen of the United States of America, residing at 952 Wood Duck Avenue, Santa Clara, California 95051, and T. Byron Rakitzis, a citizen of the United States of America, residing at 816 Alameda de las Pulgas, Belmont, California 94002, have invented a "WRITE ANYWHERE FILE SYSTEM LAYOUT" for which we have executed application papers for a U.S. patent thereon, which was filed on June 3, 1993, and assigned Serial No. 08/071,643; and

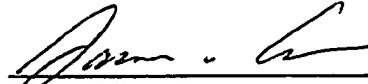
WHEREAS, Network Appliance, Inc., a California corporation, having a place of business at 319 North Bernardo Avenue, Mountain View, California 94043, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, David Hitz, Michael A. Malcolm, James K. Lau, and T. Byron Rakitzis do set, assign, transfer and set over unto the said Network Appliance, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Network Appliance, Inc., its successors and assigns, in accordance with this Assignment.

WITNESS OUR HAND at MOUNTAIN VIEW, California, this 25 day of MARCH, 1996.



David Hitz



James K. Lau

Michael A. Malcolm

T. Byron Rakitzis

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA)
) ss.
)

On this 25 day of MARCH, 1996, before me, TARA FAENZA, a Notary Public, personally appeared David Hitz, Michael A. Malcolm, James K. Lau, and T. Byron Rakitzis, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person/s whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacities, and that by his/her/their signature/s on the instrument the person/s or the entity upon behalf of which the person/s acted, executed the instrument.

WITNESS my hand and official seal.




NOTARY PUBLIC



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 19, 1996

PTAS

D'ALESSANDRO & RITCHIE
P.O. BOX 640640
SAN JOSE, CA 95164-0640



100183172A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/22/1996

REEL/FRAME: 7909/0653
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RAKITZIS, T. BYRON

DOC DATE: 03/25/1996

ASSIGNEE:

NETWORK APPLIANCE, INC.
319 NORTH BERNARDO AVENUE
MTN. VIEW, CALIFORNIA 94043

SERIAL NUMBER: 08071643

FILING DATE: 06/03/1993
PATENT NUMBER:

SEDLEY PYNE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

REC'D.
APR 22 1996

Tab settings □ □ □ □ □ □ □ □

04-30-1996

22883 100183172

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please see _____

Original documents or copy thereof.

1. Name of conveying party(ies):

T. Byron Rakitzis

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other _____

Execution Date: March 25, 1996

2. Name and address of receiving party(ies)

Name: Network Appliance, Inc.

Internal Address: _____

Street Address: 319 North Bernardo Avenue

City: Mtn. View State: CA ZIP: 94043

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/071,643

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: D'Alessandro & Ritchie

Internal Address: _____

Street Address: P. O. Box 640640

City: San Jose State: CA ZIP: 95164-0640

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

060 15 04/26/96 08071643

1 581 40.00 CK

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Nicki Kuzn

Name of Person Signing

Signature

4/16/96

Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT 22883

WHEREAS, we, David Hitz, a citizen of the United States of America, residing at 801 Church Street, #1133, Mountain View, California 94041-1963, Michael A. Malcolm, a citizen of the United States of America, residing at 48 South Avalon Drive, Los Altos, California 94022, James K. Lau, a citizen of the United States of America, residing at 952 Wood Duck Avenue, Santa Clara, California 95051, and T. Byron Rakitzis, a citizen of the United States of America, residing at 816 Alameda de las Pulgas, Belmont, California 94002, have invented a "WRITE ANYWHERE FILE SYSTEM LAYOUT" for which we have executed application papers for a U.S. patent thereon, which was filed on June 3, 1993, and assigned Serial No. 08/071,643; and

WHEREAS, Network Appliance, Inc., a California corporation, having a place of business at 319 North Bernardo Avenue, Mountain View, California 94043, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we, David Hitz, Michael A. Malcolm, James K. Lau, and T. Byron Rakitzis do ~~set~~ assign, transfer and set over unto the said Network Appliance, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Network Appliance, Inc., its successors and assigns, in accordance with this Assignment.

WITNESS OUR HAND at Mountain View, California, this 25 day of MARCH, 1996.

David Hitz

James K. Lau

T. Byron Rakitzis

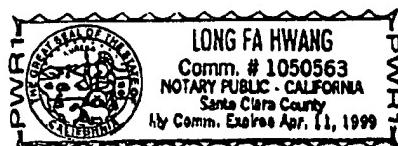
Michael A. Malcolm

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) ss.
On this 25 day of MARCH, 1996, before me,

LONG FA HWANG

a Notary Public, personally appeared ~~David Hitz, Michael A. Malcolm, James K. Lau, and T.~~
Byron Rakitzis personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is ~~are~~ subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacities, and that by ~~his/her/their~~ signature/s on the instrument the person/s or the entity upon behalf of which the person/s acted, executed the instrument.

WITNESS my hand and official seal.



Long Fa Hwang
NOTARY PUBLIC

POWER OF ATTORNEY

Network Appliance, Inc., a California corporation, assignee of the application for United States

Letters Patent for an invention entitled:

Write Anywhere File-System Layout

invented by:

David Hitz, Michael Malcolm, James Lau and Byron Rakitzis

- executed on even date herewith, or
 having Serial No. 09/153,094, filed September 14, 1998,

do(es) hereby appoint Steven A. Swernofsky, Registration No. 33,040, as attorney of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connect therewith, and certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment, a copy of which is attached, from the inventor(s) of the patent application identified above.

Please send all correspondence and direct all telephone calls to:

Steven A. Swernofsky
The Law Offices of Steven A. Swernofsky
P.O. Box 390013
Mountain View, CA 94039-0013
Telephone (650) 947-0700

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

I, the undersigned, declare that I am the (an) assignee of the above-identified application, or, if the assignee is a corporation, partnership, or other association, I am authorized to make this appointment on behalf of the assignee, and I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Full Assignee Name: Network Appliance, Inc.

Post Office Address: 2770 San Tomas Expressway, Santa Clara, CA 95051

Francine B. Bellot
Signature

12/16/98

FRANCIE B. BEUER